



SEQUENCE LISTING

<110> University of Kentucky Research Foundation
HILDEBRAND, David F
FUKUSHIGE, Hirotada

<120> RECOMBINANT WATERMELON (CITRULLUS LANATUS) HYDROPEROXIDE LYASE
AND USES THEREOF

<130> 50229-412

<140> 10/718,265
<141> 2003-11-21

<160> 6

<170> PatentIn version 3.2

<210> 1
<211> 481
<212> PRT
<213> Citrullus lanatus

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35 40 45

Trp Phe Gln Gly Pro Glu Lys Phe Phe Arg Ser Arg Met Glu Lys Asn
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Gln Ser Thr Val Phe Arg Thr Asn Val Pro Pro Ser Phe Pro Phe Phe
65 70 75 80

Phe Thr Asp Pro Arg Val Ile Ala Val Leu Asp Cys Lys Ser Phe Ala
85 90 95

His Leu Phe Asp Met Glu Ile Val Glu Lys Lys Asn Val Leu Val Gly
100 105 110

Asp Phe Met Pro Ser Thr Ser Phe Thr Gly Asn Met Arg Val Cys Ala
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Tyr Leu Asp Thr Ser Glu Ser Gln His Ser Lys Ile Lys Asn Phe Val
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Met Asp Val Leu Arg Arg Ser Ser Arg Ile Trp Ile Gln Glu Leu Glu
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Ser Asn Leu Ser Thr Met Trp Asp Ser Ile Glu Ser Glu Ile Ala Lys
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Asp Thr Lys Ser Ser Phe Arg Asn His Leu Gln Pro Thr Leu Phe Asn
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Phe Phe Ser Lys Thr Leu Ala Gly Ala Asp Thr Ala Lys Ser Pro Glu
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Val Ala Lys Ser Gly Tyr Ile Asp Val Ile Ile Trp Leu Gly Leu Gln
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Leu Val Pro Thr Ile His Ile Gly Ile Leu Gln Pro Leu Glu Glu Ile
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Phe Leu His Ser Phe Arg Leu Pro Phe Phe Pro Ile Ala Ser Arg Tyr
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Gln Arg Leu Tyr Asp Phe Ile Gln Lys Glu Gly Glu Glu Val Val Glu
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Arg Gly Val Ser Glu Phe Gly Leu Thr Lys Asp Glu Ala Ile His Asn
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Leu Ile Phe Thr Met Gly Phe Asn Ala Tyr Gly Phe Ser Leu Phe
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Phe Pro Val Leu Leu Asp Arg Ile Leu Asn Asp Lys Thr Gly Leu Gln
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Gln Arg Ile Leu Glu Glu Val Lys Ala Lys Thr Gly Ser Gly Leu Thr
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Phe Glu Ser Val Lys Glu Met Asp Leu Ile Tyr Ser Val Val Tyr Glu
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Thr Gly Leu Pro Ser Glu His Asn Lys Gln Cys Ala Gly Lys Asp Leu		
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